

WHAT IS CLAIMED IS:

1. A honeycomb sandwich panel comprising:
a honeycomb core having a number of cells
extending therethrough in a thickness direction of the
honeycomb core; and

a front surface layer and a rear surface layer
provided on both sides of the cells in the thickness
direction of the honeycomb core and closing openings of
the cells, at least one of the front surface layer and
the rear surface layer being made of a fiber reinforced
plastic using a phenolic resin as a matrix.

2. A honeycomb sandwich panel according to
claim 1, wherein each of the front surface layer and
the rear surface layer is made of at least a single
layer.

3. A honeycomb sandwich panel according to
claim 1, wherein each of the front surface layer and
the rear surface layer is made of a carbon fiber
reinforced plastic using a phenolic resin as a matrix.

4. A honeycomb sandwich panel according to
claim 1, wherein each of the front surface layer and
the rear surface layer is made of a glass fiber
reinforced plastic using a phenolic resin as a matrix.

5. A honeycomb sandwich panel according to
claim 1, wherein the honeycomb core is made of a light
metal.

6. A honeycomb sandwich panel according to

*By
Amel*
claim 1, wherein the honeycomb core is made of
a material selected from the group consisting of Nomex
and a glass fiber reinforced plastic.

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5 7. A honeycomb sandwich panel for use in an
interior material of a spacecraft comprising:

a honeycomb core having a number of cells
extending therethrough in a thickness direction of the
honeycomb core; and

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10 a front surface layer and a rear surface layer
provided on both sides of the cells in the thickness
direction of the honeycomb core and closing openings of
the cells, at least one of the front surface layer and
the rear surface layer being made of a fiber reinforced
plastic using a phenolic resin as a matrix.

Sub
15 8. A honeycomb sandwich panel according to
claim 7, wherein each of the front surface layer and
the rear surface layer is made of at least a single
layer.

Sub
20 9. A honeycomb sandwich panel according to
claim 7, wherein each of the front surface layer and
the rear surface layer is made of a carbon fiber
reinforced plastic using a phenolic resin as a matrix.

25 10. A honeycomb sandwich panel according to
claim 7, wherein each of the front surface layer and
the rear surface layer is made of a glass fiber
reinforced plastic using a phenolic resin as a matrix.

Sub
~~11. A honeycomb sandwich panel according to~~

*Sub 7
cont
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claim 7, wherein the honeycomb core is made of a light metal.

5 [Signature]
12. A honeycomb sandwich panel according to claim 7, wherein the honeycomb core is made of a material selected from the group consisting of Nomex and a glass fiber reinforced plastic.

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